



Dongfeng Cummins Curve and Datasheet

Engine Type: ISDe245 30(Truck)

Curve Number: FR92158



Dongfeng Cummins Engine Co.,Ltd

Engine Performance Curve FR92158

EURO 3

Engine Model: ISDe245 30

Engine Configuration: D313003BX03

Advertised Power: 180 kW @ 2500 rpm

CPL: 1995

245 PS @ 2500 rpm

Peak Torque: 925 N.m @ 1400 rpm

Displacement: 6.7L

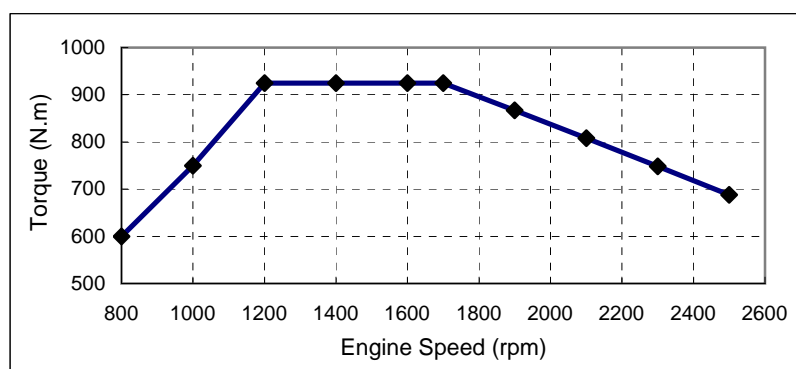
Bore: 107 mm

Aspiration: Turbocharged & Charge Air Cooled

Cylinders: 6

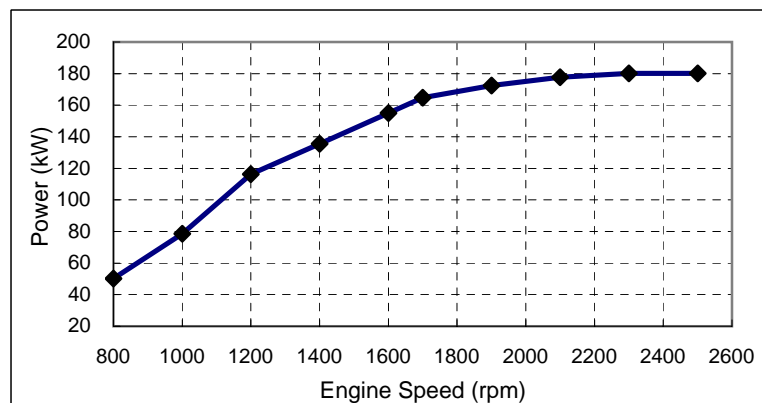
Stroke: 124 mm

Fuel System: Bosch (HPCR)



Torque

rpm	N.m
800	600
1000	750
1200	925
1400	925
1600	925
1700	925
1900	867
2100	808
2300	748
2500	688



Power

rpm	kW
800	50
1000	79
1200	116
1400	136
1600	155
1700	165
1900	172
2100	178
2300	180
2500	180

Performance data shown is nominal, and is to 80/1269/EEC(as amended) conditions of 990mbar barometric pressure and 25 deg C air intake temperature.

All data are based on the engine operating with fuel system, water pump, lubricating oil pump and with inle restriction and exhaust restriction at or below datasheet limits. Not included are compressor,fan,alternator, optional equipment and driven components.



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General

Certification: GB 17691—2005
 Compression Ratio: 17.3:1

Air Intake System

Max. temperature rise between ambient air and turbo air inlet: °C 15
 Max. intake restriction with dry type air cleaner, with clean filter
 Medium Duty: - kPa 2.9
 Heavy Duty: - kPa 3.7
 Max. intake restriction with dirty filter: - kPa 6.2

Charge Air Cooling

Max. temperature rise between ambient air and intake manifold: °C 30
 Max. ΔP between turbo out and manifold in: - kPa 13.5
 Intake pipe size normally acceptable: - mm dia 65

Exhaust System

Max. back pressure imposed by complete exhaust system: - kPa 10
 Exhaust pipe size normally acceptable: - mm dia 75

Cold Start Performance

Min. unaided cold start temperature: -12 °C @120 average rpm
 Min. aided cold start temperature: -24 °C @120 average rpm

Performance Data

Idle Speed: - rpm 600 - 800
 Maximum no load governed speed: - rpm 2850
 Maximum over speed capability(15secs max.): - rpm 4200
 Maximum altitude for continuous operation: - m TBD
 Clutch engagement torque at 800rpm: - N.m 610
 When using exhaust brakes:
 Exhaust pressure, at 2850rpm, at turbocharger outlet, must not exceed: - kPa 413
 Approximate engine retardation: - kW TBD

Engine Speed RPM	Oil Pressure kPa	Air to Turbo m³/min	Air From Turbo		Exhaust Flow m³/min	Exhaust Temp °C	Fuel Consumption kg/hr	Coolant Flow l/min	Heat Rejection		Friction Power kW
			Flow kg/min	Pressure Pa					Coolant kW	Air kW	
2500	301.2	15.15		154.1		474.489	220	256.1167	87.6	27.5	34.0
2300	300	14.34		156.7		525.007		235.65	89.2	26.3	28.0
1400	203.9	8.72		133.4		525.241		145.5667	66.56303	16.3699	13.0

All values within $\pm 5\%$

Base engine data refer to Datasheet D313003BX03

All data subject to change without notice. Dongfeng Cummins Engine Co., Ltd